

I CLAIM:

1. A disk drive comprising:

a disk drive base;

a generally E-shaped voice coil motor yoke coupled to the disk drive base, the voice coil motor yoke including:

a generally C-shaped integrally formed first yoke body, the first yoke body including a first yoke first prong and a first yoke second prong;

a generally C-shaped integrally formed second yoke body, the second yoke body including a second yoke first prong and a second yoke second prong, the second yoke second prong being coupled to the first yoke second prong;

a first voice coil magnet supported by the first yoke first prong disposed toward the first yoke second prong;

a second voice coil magnet supported by the second yoke first prong disposed toward the second yoke second prong, the second voice coil magnet having a same polarity disposed towards the second yoke second prong as the first voice coil magnet having disposed towards the first yoke second prong; and

an actuator configured to rotate about an axis of rotation, the actuator including an actuator body rotatably coupled to the disk drive base and an actuator coil coupled to the actuator body, the actuator coil defining a coil axis disposed orthogonal to the axis of rotation, the actuator coil being positionable about the first yoke second prong and the second yoke second prong and between the first voice coil magnet and the second voice coil magnet.

1 2. The disk drive of Claim 1 wherein an adhesive is used to couple the second yoke second
2 prong to the first yoke second prong.

1 3. The disk drive of Claim 1 wherein the first and second yoke bodies are formed of a
2 magnetic conductive material.

1 4. The disk drive of Claim 3 wherein the first and second yoke bodies are formed of steel.

1 5. The disk drive of Claim 4 wherein the first and second yoke bodies are nickel plated.

1 6. The disk drive of Claim 4 wherein the second yoke second prong is welded to the first yoke
2 second prong.

1 7. The disk drive of Claim 1 wherein the first yoke first prong includes a first tab, the first tab
2 includes a fastener hole formed through the first tab, the first yoke body is coupled to the disk drive
3 base with a fastener disposed through the first tab.

1 8. The disk drive of Claim 7 wherein the first yoke first prong includes a first yoke distal end,
2 the first tab is disposed adjacent the first yoke distal end.

1 9. The disk drive of Claim 7 wherein the second yoke first prong includes a second tab, the
2 second tab includes a fastener hole formed through the second tab, the second yoke body is coupled
3 to the disk drive base with a fastener disposed through the second tab.

1 10. The disk drive of Claim 9 wherein the first yoke first prong includes a first yoke distal end,
2 the first tab is disposed adjacent the first yoke distal end, the second yoke second prong includes a
3 second yoke distal end, the second tab is disposed adjacent the second yoke distal end.

1 11. The disk drive of Claim 1 wherein the first yoke second prong and the second yoke second
2 prong are generally arc-shaped.

1 12. A disk drive comprising:

2 a disk drive base;

3 a generally E-shaped voice coil motor yoke coupled to the disk drive base, the voice
4 coil motor yoke including a first prong having opposing engagement and distal ends, the
5 first prong including a projection extending from the engagement end, the yoke further
6 includes a generally C-shaped yoke body, the yoke body including second and third prongs
7 and a transition section disposed between the second and third prongs, the transition section
8 including an engagement opening formed in the transition section and configured to engage
9 the projection of the first prong;

10 a first voice coil magnet supported by the second prong disposed toward the first
11 prong;

12 a second voice coil magnet supported by the third prong disposed toward the first
13 prong, the second voice coil magnet having a same polarity disposed towards first prong as
14 the first voice coil magnet having disposed towards the first prong; and

15 an actuator configured to rotate about an axis of rotation, the actuator including an
16 actuator body rotatably coupled to the disk drive base and an actuator coil coupled to the
17 actuator body, the actuator coil defining a coil axis disposed orthogonal to the axis of
18 rotation, the actuator coil being positionable about the first prong and between the first and
19 second voice coil magnets.

1 13. The disk drive of Claim 12 wherein the transition section defines a transition section
2 thickness, the projection defines a projection length as least as long as the transition section
3 thickness.

1 14. The disk drive of Claim 12 wherein the engagement opening is laterally centered in the
2 transition section.

1 15. The disk drive of Claim 12 wherein the engagement opening extends through the transition
2 section.

1 16. The disk drive of Claim 12 wherein the engagement opening comprises a pair of openings
2 laterally disposed about the transition section, the projection comprises a pair of projections
3 extending from the engagement end, the projections are engaged within the engagement openings
4 with the transition section disposed between the projections.

1 17. The disk drive of Claim 12 wherein the engagement opening comprises multiple openings,
2 the projection comprises multiple projections extending from the engagement end, each of the
3 projections are respectively engaged within the engagement openings.

1 18. The disk drive of Claim 12 wherein an adhesive is used to engage the first prong within the
2 engagement opening.

1 19. The disk drive of Claim 12 wherein the first prong has a thickness about twice that of the
2 second and third prongs.